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PATENT

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Inventors

David McCarter, Jared Polis

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For

GENERATING A COURIER SHIPPING LABEL OR THE

LIKE, INCLUDING AN ORNAMENTAL GRAPHIC

DESIGN, AT A NON-COURIER PRINTER

Group Art Unit

2625

Examiner

PHAM, Thierry L.

MS: Fee Amendment Commissioner of Patents P.O. Box 1450

Alexandria, VA 22313-1450

DECLARATION OF PRIOR INVENTION

SIR:

- 1. My name is William Strauss.
- 2. At a date prior to March 10, 1998, I was in charge of operations for ProFlowers, Inc. and became President and Chief Operating Officer of the company, to which the aboveidentified patent application was assigned.
 - 3. I am familiar with the patent application and the patent claims.
- This Declaration is to establish completion of the invention in the United States at a date prior to March 10, 1998, that is the effective filing date of U.S. Patent No. 5,984,778, which is cited by the Examiner in the Office Action having a mailing date of 06/02/07.

- Under my supervision, this invention was completed and in use in the United
 States to make Federal Express deliveries prior to March 10, 1998.
- 6. Corroborating my declaration is computer code which was filed as an appendix in the patent application from which this application claims priority, i.e., Ser. No. 09/149,680 filed 09/08/1998. Attention is drawn to particularly to pages 654-675 that code, which is attached hereto. Pages 654-675 pertain to "CFX_FEDEXSHIP" marked as "Copyright 97".
- 7. This portion of the code pertains to ProFlowers operations that enabled the labeling printed by a supplier, as illustrated by the label attached hereto.
- 8. Collectively, the foregoing corroborates my declaration that this invention was completed and used in the United States prior to March 10, 1998.
- 9. I declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true, and further that these statements were made with knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statement may jeopardize the validity of the application or any patent issued thereon.

William Strauss

uma

```
// CFX_FEDEXSHIP - Cold Fusion custom tag
// Copyright 97. All Rights Reserved.
#include "stdafx.h"
                                 // Standard MFC libraries
#include "cfx.h"
                                // CFX Custom Tag API
#include "WebTransaction.h"
                                        // FedEx WebAPI
// Constants
#define TAG ERROR HEADER
                                "Error occurred in tag CFX FedExTrack"
// Forward declarations of implementation functions
int GetLabelData(char* buffer, char labelData[]);
LPCSTR getField(char *cBuffer, const char *cFieldCode);
LPCSTR GetRequiredAttribute( CCFXRequest* pRequest, LPCSTR lpszParamName ) ;
int BuildFedExBuffer( CCFXRequest* pRequest, WebTransaction* cWebTran,
                                          CString TransactionType ,
                                          CString TransactionID ,
                                          CString Reference ,
                                          CString ShipperName,
                                          CString ShipperCompany
                                          CString ShipperAddress1 ,
                                          CString ShipperAddress2 ,
                                          CString ShipperCity .
                                          CString ShipperState,
                                          CString ShipperZip ,
                                          CString ShipperAccount ,
                                          CString ShipperPhone,
                                          CString PayorAccount ,
                                          CString MeterNr ,
                                          CString DestinationCompanyName ,
                                          CString DestinationContactName ,
                                          CString DestinationAddress1 ,
                                          CString DestinationAddress2 ,
                                          CString DestinationCity ,
                                         CString DestinationState ,
                                         CString DestinationZip ,
                                          CString DestinationCountry ,
                                         CString DestinationPhone ,
                                         CString ServiceType ,
                                          CString ShipDate,
                                         CString PaymentCode ,
CString PackageHeight ,
CString PackageWidth ,
                                          CString PackageLength ,
                                         CString PackageWeight ,
                                         CString NumberOfPackages ,
                                         CString SignatureRelease,
                                         CString ReleaseAuthNumber ,
                                         CString Residential ,
                                         CString LabelFormat
                                         CString FutureShipDate ,
                                         CString SpecialServices ,
                                         CString LabelDirectory ,
                                         CString DuplicatePackage
```

) ; void ProcessTagRequest(CCFXRequest* pRequest, WebTransaction* cWebTran) int iFedExErr ; char cFedExErr[6] ; // Retrieve attributes passed to the tag CString TransactionType = GetRequiredAttribute(pRequest, "Tran CString TransactionID = GetRequiredAttribute (pRequest, "Transa-CString Reference = GetRequiredAttribute(pRequest, "Reference" CString ShipperName = GetRequiredAttribute(pRequest, "ShipperN CString ShipperCompany = GetRequiredAttribute(pRequest, "ShipperCompany = GetRequiredAttribute(preduction = GetRequiredAttri CString ShipperAddress1 = GetRequiredAttribute(pRequest, "Ship CString ShipperAddress2 = GetRequiredAttribute(pRequest, "Ship CString ShipperCity = GetRequiredAttribute(pRequest, "ShipperC CString ShipperState = GetRequiredAttribute (pRequest, "Shipper CString ShipperZip = GetRequiredAttribute(pRequest, "ShipperZi-CString ShipperAccount = GetRequiredAttribute(pRequest, "Shipp CString ShipperPhone = GetRequiredAttribute(pRequest, "Shipper CString PayorAccount = GetRequiredAttribute(pRequest, "PayorAc CString MeterNr = GetRequiredAttribute(pRequest, "MeterNr") ; CString DestinationCompanyName = GetRequiredAttribute(pRequest CString DestinationContactName = GetRequiredAttribute(pRequest CString DestinationAddress1 = GetRequiredAttribute(pRequest, "CString DestinationAddress2 = GetRequiredAttribute(pRequest, " CString DestinationCity = GetRequiredAttribute(pRequest, "Dest CString DestinationState = GetRequiredAttribute(pRequest, "Des CString DestinationZip = GetRequiredAttribute(pRequest, "Desti CString DestinationCountry = GetRequiredAttribute(pRequest, "D CString DestinationPhone = GetRequiredAttribute(pRequest, "Des CString ServiceType = GetRequiredAttribute(pRequest, "ServiceT CString ShipDate = GetRequiredAttribute(pRequest, "ShipDate") CString PaymentCode = GetRequiredAttribute(pRequest, "PaymentC CString PackageHeight = GetRequiredAttribute(pRequest, "Package CString PackageWidth = GetRequiredAttribute(pRequest, "Package CString PackageWidth = GetRequiredAttribute(pRequest, "Package CString PackageWidth = GetRequiredAttribute(pRequest, "Package CString Package CSTring Packa CString PackageLength = GetRequiredAttribute(pRequest, "Packag CString PackageWeight = GetRequiredAttribute(pRequest, "Packag CString NumberOfPackages = GetRequiredAttribute(pRequest, "Num CString SignatureRelease = GetRequiredAttribute(pRequest, "Sig CString ReleaseAuthNumber - GetRequiredAttribute(pRequest, "Re CString Residential = GetRequiredAttribute(pRequest, "Resident CString LabelFormat = GetRequiredAttribute(pRequest, "LabelFor CString FutureShipDate = GetRequiredAttribute(pRequest, "Futur CString SpecialServices = GetRequiredAttribute(pRequest, "Spec CString LabelDirectory = GetRequiredAttribute(pRequest, "Label CString DuplicatePackage = GetRequiredAttribute(pRequest, "Dup // default output fields pRequest->SetVariable("ErrorCode", "") ; pRequest->SetVariable("ErrorMsg", "") ;
pRequest->SetVariable("TrackingNr", "") pRequest->SetVariable("DeliveryDay", ""); iFedExErr = BuildFedExBuffer(pRequest, cWebTran, TransactionType ,

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```
TransactionID ,
                                  Reference ,
                                  ShipperName ,
                                  ShipperCompany ,
                                  ShipperAddress1 ,
                                  ShipperAddress2 ,
                                  ShipperCity,
                                  ShipperState,
                                  ShipperZip ,
                                  ShipperAccount ,
                                  ShipperPhone,
                                  PayorAccount ,
                                  MeterNr
                                  DestinationCompanyName ,
                                  DestinationContactName ,
                                  DestinationAddress1 ,
                                  DestinationAddress2 ,
                                  DestinationCity ,
                                  DestinationState ,
                                  DestinationZip
                                  DestinationCountry ,
                                  DestinationPhone ,
                                  ServiceType ,
                                  ShipDate ,
                                  PaymentCode ,
                                  PackageHeight ,
                                  PackageWidth ,
                                  PackageLength ,
                                  PackageWeight ,
                                  NumberOfPackages ,
                                  SignatureRelease ,
                                  ReleaseAuthNumber ,
                                  Residential ,
                                  LabelFormat
                                  FutureShipDate ,
                                  SpecialServices ,
                                  LabelDirectory ,
                                 DuplicatePackage
         itoa( iFedExErr, cFedExErr, 10 );
        pRequest->SetVariable( "ConnectErr", cFedExErr ) ;
        // Output optional debug info
        if ( pRequest->Debug() )
                pRequest->WriteDebug( "Debug info..." ) ;
// Catch Cold Fusion exceptions & re-raise them
catch ( CCFXException* e )
       pRequest->ReThrowException( e ) ;
// Catch ALL other exceptions and throw them as
// Cold Fusion exceptions (DO NOT REMOVE! --
// this prevents the server from crashing in
                            --656-
```

```
// case of an unexpected exception)
       catch( ...)
               pRequest->ThrowException(
                        "Error occurred in tag CFX_FEDEXSHIP",
                        "Unexpected error occurred while processing tag." ) ;
       }
}
BuildFedExBuffer
11
                        builds buffer, connects to and disconnects from
//
                        FedEx WEBAPI server over the Internet
CString TransactionType ,
                                         CString TransactionID ,
                                         CString Reference ,
                                         CString ShipperName
                                         CString ShipperCompany
                                         CString ShipperAddress1 , CString ShipperAddress2 ,
                                         CString ShipperCity ,
                                         CString ShipperState,
                                         CString ShipperZip ,
                                         CString ShipperAccount ,
                                         CString ShipperPhone,
                                         CString PayorAccount ,
                                         CString MeterNr
                                         CString DestinationCompanyName ,
                                         CString DestinationContactName ,
                                         CString DestinationAddress1 ,
                                         CString DestinationAddress2 ,
                                         CString DestinationCity ,
                                         CString DestinationState ,
                                         CString DestinationZip ,
                                         CString DestinationCountry ,
                                         CString DestinationPhone ,
                                         CString ServiceType ,
CString ShipDate ,
CString PaymentCode ,
CString PackageHeight ,
                                         CString PackageWidth ,
                                         CString PackageLength ,
                                         CString PackageWeight ,
                                         CString NumberOfPackages ,
                                         CString SignatureRelease ,
                                         CString ReleaseAuthNumber,
CString Residential,
CString LabelFormat,
CString FutureShipDate,
                                         CString SpecialServices ,
                                         cstring LabelDirectory ,
                                         CString DuplicatePackage
       WebTransaction xctn("", 0,"", "");
       int iLastError, iLabelSize ;
       CString sReturnField, TrackingNr ; # 657-
```

```
char LabelFileName [256] :
  FILE *fLabelFile ;
  if ( TransactionType == "international" )
                 xctn.AddVar("0", "51", true);
                 xctn.AddVar("26", GetRequiredAttribute(pRequest, "intlCustomsValue")
                xctn.AddVar("26", GetRequiredAttribute(pRequest, "intlCustomsValuxctn.AddVar("68", GetRequiredAttribute(pRequest, "intlCurrency")
xctn.AddVar("69", GetRequiredAttribute(pRequest, "intlCarriageValuxctn.AddVar("70", GetRequiredAttribute(pRequest, "intlDutyTaxBilluctn.AddVar("71", GetRequiredAttribute(pRequest, "intlDutyTaxBilluctn.AddVar("74", GetRequiredAttribute(pRequest, "intlCountryOfUluctn.AddVar("75", GetRequiredAttribute(pRequest, "intlWeightTypeuxctn.AddVar("77", GetRequiredAttribute(pRequest, "intlUnitWeightutn.AddVar("79", GetRequiredAttribute(pRequest, "intlDescriptionuctn.AddVar("80", GetRequiredAttribute(pRequest, "intlCountryOfMuctn.AddVar("117", GetRequiredAttribute(pRequest, "intlShipperCouxctn.AddVar("127", GetRequiredAttribute(pRequest, "intlUnitValueuxctn.AddVar("127", GetRequiredAttribute(pRequest, "intlUnitValueuxctn.AddVar("401", GetRequiredAttribute(pRequest, "intlQuantity"
                 xctn.AddVar("401", GetRequiredAttribute(pRequest, "intlQuantity"
                 xctn.AddVar("414", GetRequiredAttribute(pRequest, "intlUnitOfMea:
                 xctn.AddVar("1116", GetRequiredAttribute(pRequest, "intlDimUnits
 else
                 // default is domestic shipment
                 xctn.AddVar("0", "1", true);
 //xctn.AddVar("1", cWebTran->GetNextTransID());
 xctn.AddVar("1", TransactionID);
 xctn.AddVar("25", Reference);
 xctn.AddVar("32", ShipperName);
 xctn.AddVar("4", ShipperCompany);
 xctn.AddVar("5", ShipperAddress1);
xctn.AddVar("6", ShipperAddress2);
xctn.AddVar("7", ShipperCity);
xctn.AddVar("8", ShipperState);
xctn.AddVar("9", ShipperState);
xctn.AddVar("10", ShipperAccount);
xctn.AddVar("183", ShipperPhone);
xctn.AddVar("20", PayorAccount);
xctn.AddVar("498", MeterNr);
xctn.AddVar("11", DestinationCompanyName);
xctn.AddVar("12", DestinationContactName);
xctn.AddVar("13", DestinationAddress1);
xctn.AddVar("14", DestinationAddress2);
xctn.AddVar("15", DestinationCity);
xctn.AddVar("16", DestinationState);
xctn.AddVar("17", DestinationZip);
xctn.AddVar("50", DestinationCountry);
xctn.AddVar("18", DestinationPhone);
xctn.AddVar("22", ServiceType);
xctn.AddVar("24", ShipDate);
xctn.AddVar("23", PaymentCode);
xctn.AddVar("57", PackageHeight);
xctn.AddVar("58", PackageWidth);
xctn.AddVar("59", PackageLength);
xctn.AddVar("21", PackageWeight);
xctn.AddVar("116", NumberOfPackages);
xctn.AddVar("51", SignatureRelease);
xctn.AddVar("1118", ReleaseAuthNumber); __ _ _ _ 58 -
```

```
xctn.AddVar("440", Residential);
xctn.AddVar("187", LabelFormat);
xctn.AddVar("1119", FutureShipDate);
xctn.AddVar("39", SpecialServices);
xctn.AddVar("408", DuplicatePackage);
xctn.AddVar("99", "");
// write send buffer to file
FILE *fptrl;
SetCurrentDirectory("f:\\bmao\\misc\\");
         fptrl = fopen("lastsend.txt", "w+");
         if (fptrl != NULL)
                  fputs(xctn.m_OutBuffer, fptrl);
                  fclose(fptr1);
// end write
         int returnlen;
         iLastError = xctn.Connect() ;
         if (iLastError != WEBAPI OK)
                 pRequest->SetVariable( "ConnectErrMsg", xctn.GetErrorst:
                 return iLastError;
        memset(xctn.m_InBuffer, 0, WEBAPI_MAX_BUFFER_SIZE);
         iLastError = WEBAPITransaction(xctn.m_OutBuffer, strlen(xctn.m (
                                   WEBAPI MAX BUFFER_SIZE, &returnlen);
         if (iLastError != WEBAPI OK)
                 pRequest->SetVariable( "ConnectErrMsg", xctn.GetErrorSt;
                 return iLastError - 10000;
        xctn.m_bDecoded = FALSE ;
        iLastError = xctn.Disconnect() ;
        pRequest->SetVariable( "ConnectErrMsg", xctn.GetErrorString() )
// write returned buffer to file; MUST BE IN BINARY MODE (b)!!
        fptr1 = fopen("lastrecv.txt", "wb");
        if (fptrl != NULL)
                 fputs(xctn.m_InBuffer, fptrl);
                 fclose(fptrl);
// end write
// get error code
        sReturnField = getField(xctn.m_InBuffer, "\"2,\"") ;
        if (sReturnField == "")
                 sReturnField = "0" ;
        pRequest->SetVariable( "ErrorCode", sReturnField );
                                             - 6 59ー
```

```
// get error message
                sReturnField = getField(xctn.m_InBuffer, "\"3,\"") ;
                pRequest->SetVariable( "ErrorMsg", sReturnField ) ;
        // get tracking number
                TrackingNr = getField(xctn.m_InBuffer, "\"29,\"") ;
                pRequest->SetVariable( "TrackingNr", TrackingNr ) ;
        // get delivery date
                sReturnField = getField(xctn.m_InBuffer, "\"194,\"") ;
                pRequest->SetVariable( "DeliveryDay", sReturnField );
        // get label and write output file
                char labelData[WEBAPI_MAX_BUFFER_SIZE] ;
                //xctn.GetLabelData(labelData);
                iLabelSize = GetLabelData(xctn.m_InBuffer, labelData) ;
                if ( iLabelSize > 0 )
                        // write label to file
                        SetCurrentDirectory(LabelDirectory);
                        strcpy(LabelFileName, TrackingNr);
strcat(LabelFileName, ".gif");
                        fLabelFile = fopen(LabelFileName, "wb");
                        if (fLabelFile ! NULL)
                                 int numwritten = fwrite( labelData, sizeof( cha:
                                 fclose(fLabelFile);
                         // end write
       return iLastError;
int GetLabelData(char* buffer, char labelData[])
       int j = 0;
        int q;
        int count = 0;
       char cchar;
       char temp[2];
       char tempVarName(100);
       char hexTable[20];
        int btofs = 0;
       BOOL blabel = FALSE;
        tempVarName\{0\} = ' \setminus 0';
        labelData[0] = '\0';
        strcpy(hexTable, "0123456789ABCDEF");
        for (UINT i = 0; i < strlen(buffer); i++)
                switch (buffer[i])
                        case 0:
                                             -666
                                 break:
```

```
}
case 34:
         if (j)
{
                  if (bLabel)
                           return count;
                  j = 0;
                  tempVarName[0] = ' \setminus 0';
         else
                  if (strcmp(tempVarName, "188") == 0)
                           bLabel = TRUE;
                  í = 1;
         break;
default:
         if (j) {
                  if (bLabel)
                           switch (btofs)
                                    case 1:
                                            cchar = 0;
                                            for (q = 0; q <
                                                      if (tou
                                                     cohar =
                                                     break;
                                            btofs = 2;
                                            break;
                                   çase 2:
                                            for (q = 0; q < {
                                                     if (tou
                                                     cchar =
                                                     break;
                                             labelData[count
                                            count++;
            -661-
```

```
btofs = 0;
                                                                   break;
                                                          default:
                                                                   if (buffer[i] =:
                                                                            brofs =
                                                                   else
                                                                            labelDa
                                                                            count++
                                                                   break;
                                          }
                                 é1se
                                          if (buffer[i] != ',')
                                                  temp[0] = buffer[i];
                                                  temp[1] = 0;
                                                  strcat(tempVarName, temp);
                                          }
                                 break;
                }
        return count;
// Parse the returned buffer for the contents of a specified field
LPCSTR getField(char *cBuffer, const char *cFieldCode)
        char tmpString[2048] ;
        UTNT iStart, iLen, iLenFieldCode;
        char *pdest, *pdest1 ;
        LPSTR ptmpString ;
        tmpString[0] = '\0';
iLenFieldCode = strlen(cFieldCode);
        pdest = strstr( cBuffer, cFieldCode );
        if (pdest == NULL)
                tmpString[0] = '\0';
                ptmpString = &tmpString[0] ;
                return ptmpString ;
        iStart = pdest - cBuffer + iLenFieldCode :_662-
```

```
pdest1 = strstr( _strninc(cBuffer, iStart), "\"" );
         iLen = pdest1 ~ pdest - iLenFieldCode ;
        strncpy( tmpString, pdest+iLenFieldCode, iLen );
tmpString[iLen] = '\0';
        ptmpString = &tmpString[0] ;
        return ptmpString ;
}
// Get the value for the passed attribute (throw an exception
// if the attribute was not passed to the tag)
LPCSTR GetRequiredAttribute( CCFXRequest* pRequest, LPCSTR lpszAttribName )
        // Verify that the attribute exists (throw an exception
        // if it does not)
        if ( !pRequest->AttributeExists(lpszAttribName) )
{
                 CString strErr =
                          "The required attribute " + CString(lpszAttribName) +
                          " was not passed to the tag. ";
                 pRequest->ThrowException( TAG_ERROR_HEADER, strErr ) ;
        // Return the attribute
        return pRequest->GetAttribute( lpszAttribName ) ;
}
```

```
CFX FEDEXTRACK - Cold Fusion custom tag
  Copyright 97. All Rights Reserved.
#include "stdafx.h"
                                                       // Standard MFC libraries
                                                       // CFX Custom Tag API
#include "cfx.h"
#include "WebTransaction.h"
                                             // FedEx WebAPI
// Constants
#define TAG ERROR_HEADER
                                   "Error occurred in tag CFX_FedExTrack"
// Variables
// Forward declarations of implementation functions
LPCSTR getField(char *cBuffer, const char *cFieldCode) ;
LPCSTR GetRequiredAttribute( CCFXRequest* pRequest, LPCSTR lpszParamName );
int BuildFedExBuffer(CCFXRequest* pRequest, WebTransaction* cWebTran, CString, (
void ProcessTagRequest ( CCFXRequest* pRequest, WebTransaction* cWebTran )
         try
                  int iFedExTrackErr;
                  char cFedExTrackErr[6] ;
                  // Retrieve attributes passed to the tag
                  CString strTrackingNr = GetRequiredAttribute( pRequest, "Tracki;
                  CString strDestCountry = GetRequiredAttribute( pRequest, "DestC:
                  CString strShipDate = GetRequiredAttribute( pRequest, "ShipDate
                  // default output fields
                 pRequest->SetVariable("ErrorCode", "");
pRequest->SetVariable("ErrorMsg", "");
pRequest->SetVariable("DeliveryDate", "");
pRequest->SetVariable("DeliveryTime", "");
pRequest->SetVariable("DeliveryTo", "");
pRequest->SetVariable("SignedFor", "");
pRequest->SetVariable("SignedFor", "");
                 PRequest->SetVariable( "DispatchException", "" ) ;
                 pRequest->SetVariable( "ServiceType", "" );
pRequest->SetVariable( "PackageType", "" );
                 pRequest->SetVariable( "ScanAct1vity", "" );
                  iFedExTrackErr = 3 ;
                  BuildFedExBuffer( pRequest, cWebTran, strTrackingNr, strDestCou
                  itoa( iFedExTrackErr, cFedExTrackErr, 10 );
                  DRequest->SetVariable( "ConnectErr", cFedExTrackErr ) ;
                  // Output optional debug info
                  if ( pRequest->Debug() )
                           pRequest->WriteDebug( "Debug info..." ) ;
                                         -664-
```

```
// Catch Cold Fusion exceptions & re-raise them
        catch ( CCFXException* e )
                pRequest->ReThrowException( e ) ;
        // Catch ALL other exceptions and throw them as
        // Cold Fusion exceptions (DO NOT REMOVE! --
        // this prevents the server from crashing in
        // case of an unexpected exception)
        catch( ... )
                pRequest ~ > Throw Exception (
                        "Error occurred in tag CFX_FEDEXTRACK",
                         "Unexpected error occurred while processing tag." ) ;
}
BuildFedExBuffer
                        builds buffer, connects to and disconnects from
                        FedEx WEBAPI server over the Internet
int BuildFedExBuffer( CCFXRequest* pRequest, WebTransaction* cWebTran, CString :
       WebTransaction xctn("", 0,"", "");
       int iLastError ;
       int nScanActivity, iPos, i, j;
       CString sReturnField;
       char cFieldCode[8] ;
char tmpString[71] ;
       char ScanActivity[1200] ;
                                        // up to 15 fields, 70 + 1 chars each
       xctn.AddVar("0", "402", true);
xctn.AddVar("1", cWebTran->GetNextTransID());
xctn.AddVar("29", strTrackingNr);
xctn.AddVar("50", strDestCountry);
xctn.AddVar("24", strShipDate);
xctn.AddVar("99", "");
       // write send buffer to file
       FILE *fptr1;
       SetCurrentDirectory("f:\\bmao\\misc\\");
               fptr1 = fopen("lastsend.txt", "w+");
                if (fptr1 != NULL)
                        fputs(xctn.m OutBuffer, fptrl);
                        fclose(fptrl);
       // end write
               int returnlen;
               iLastError = xctn.Connect();
               if (iLastError != WEBAPI OK)
                                          -665-
```

```
pRequest->SetVariable( "ConnectErrMsg", xctn.GetErrorStr
                return iLastError;
        memset(xctn.m InBuffer, 0, WEBAPI_MAX_BUFFER_SIZE);
iLastError = WEBAPITransaction(xctn.m_OutBuffer, strlen(xctn.m_C
                                 WEBAPI_MAX_BUFFER_SIZE, &returnlen);
        iLastError = xctn.Disconnect();
        pRequest->SetVariable( "ConnectErrMsg", xctn.GetErrorString() )
// write returned buffer to file
        fptr1 = fopen("lastrecv.txt", "w+");
        if (fptrl != NULL)
                fputs(xctn.m InBuffer, fptrl);
                fclose(fptr1);
// end write
// get error code
        sReturnField = getField(xctn.m_InBuffer, "\"2,\"") ;
        if (sReturnField == "")
                sReturnField = "0";
        pRequest->SetVariable( "ErrorCode", sReturnField ) ;
// get error message
        sReturnField = getField(xctn.m_InBuffer, "\"3,\"") ;
        prequest->SetVariable( "ErrorMsg", sreturnField );
// get delivery date field and set Cold Fusion variable
        sReturnField = getField(xctn.m_InBuffer, "\"1720,\"") ;
        pRequest->SetVariable( "DeliveryDate", sReturnField );
// get delivery time field and set Cold Fusion variable
        sReturnField = getField(xctn.m_InBuffer, "\"1707,\"") ;
        pRequest -> SetVariable ( "DeliveryTime", sReturnField ) ;
// get Delivery To field and set Cold Fusion variable
        sReturnField = getField(xctn.m_InBuffer, "\"1705,\"") ;
        pRequest->SetVariable( "DeliveryTo", sReturnField );
// get Signed For field and set Cold Pusion variable
        sReturnField = getField(xctn.m_InBuffer, "\"1706,\"");
        pRequest->SetVariable( "SignedFor", sReturnField ) ;
// get Dispatch Exception field and set Cold Fusion variable
        sReturnField = getField(xctn.m_InBuffer, "\"1709,\"")
        pRequest->SetVariable( "DispatchException", sReturnField ) ;
// get Service Type field and set Cold Fusion variable
        sReturnField = getField(xctn.m_InBuffer, "\"1704,\"") ;
        pRequest->SetVariable( "ServiceType", sReturnField ) ;
// get Package Type field and set Cold Fusion variable
        sReturnField = getField(xctn.m_InBuffer, "\"1718,\"") ;
        pRequest->SetVariable( "PackageType", sReturnField );
                               -666-
```

```
// get scan activity fields and set Cold Fusion variable
                 sReturnField = getField(xctn.m_InBuffer, "\"1715,\"") ;
                 nScanActivity = atoi( sReturnField ) ;
                 iPos = 0;
                 for (i=1; i<=nScanActivity; i++)</pre>
                         itoa(1720+i, cFieldCode, 10);
                         for (j=4; j>=0; j--)
                                 cFieldCode(j+1) = cFieldCode(j) ;
                         cFieldCode[0] - '\"';
                         cFieldCode[5] = ',';
cFieldCode[6] = '\";
                         cFieldCode[7] = '\0';
                         sReturnField = getField(xctn.m_InBuffer, cFieldCode) ;
                         strcpy( tmpString, sReturnField );
                         for (j=0; j<strlen(sReturnField);j++)</pre>
                                 ScanActivity[iPos] = tmpString[j] ;
                                 iPos++ ;
                         ScanActivity[iPos] = '<';
                         iPos++ ;
                         ScanActivity[iPos] = 'b';
                         iPos++
                         ScanActivity[iPos] = 'r';
                         iPos++ ;
                         ScanActivity[iPos] = '>' ;
                         iPos++ ;
                }
                ScanActivity[iPos] = '\0';
                pRequest->SetVariable( "ScanActivity", ScanActivity );
       return iLastError;
// Parse the returned buffer for the contents of a specified field
LPCSTR getField(char *cBuffer, const char *cFieldCode)
       char tmpString[2048] ;
       UINT iStart, iLen, iLenFieldCode ;
char *pdest, *pdest1 ;
       LPSTR prmpString ;
       tmpString[0] = '\0';
        iLenFieldCode = strlen(cFieldCode) ;
       pdest = strstr( cBuffer, cFieldCode );
        if (pdest == NULL)
                tmpString[0] = '\0';
                ptmpString = &tmpString(0);
                                     -667-
```

```
return ptmpString ;
         iStart = pdest - cBuffer + iLenFieldCode;
pdest1 = strstr(_strninc(cBuffer, iStart), "\"" );
         iLen = pdest1 - pdest - iLenFieldCode ;
         strncpy( tmpString, pdest+iLenFieldCode, iLen );
tmpString[iLen] = '\0';
         ptmpString = &tmpString[0] ;
         return ptmpString;
}
// Get the value for the passed attribute (throw an exception
// if the attribute was not passed to the tag)
LPCSTR GetRequiredAttribute( CCFXRequest* pRequest, LPCSTR lpszAttribName)
         // Verify that the attribute exists (throw an exception
         // if it does not)
         if ( !pRequest->AttributeExists(lpszAttribName) )
                   CString strErr =
                             "The required attribute " + CString(lpszAttribName) +
                   " was not passed to the tag. " ;
pRequest->ThrowException( TAG_ERROR_HEADER, strErr ) ;
         // Return the attribute
         return pRequest->GetAttribute( lpszAttribName ) ;
Ì
```

```
// CFX FEDEXTRACKADV - Cold Pusion custom tag
// Copyright 98. All Rights Reserved.
#include "stdafx.h"
                                        // Standard MFC libraries
                                        // CFX Custom Tag API
#include "cfx.h"
                                                  // FedEx WebAPI
#include "WebTransaction.h"
// Constants
                                        "Error occurred in tag CFX_FedExTrackAdv"
#define TAG ERROR HEADER
// Variables
// Forward declarations of implementation functions
LPCSTR getField(char *cBuffer, const char *cFieldCode)
LPCSTR GetRequiredAttribute( CCFXRequest* pRequest, LPCSTR lpszParamName );
int BuildFedExBuffer(CCFXRequest* pRequest, WebTransaction* cWebTran, CString, C
void ProcessTagRequest( CCFXRequest* pRequest, WebTransaction* cWebTran )
                   int iFedExTrackErr;
                   char cFedExTrackErr[6] ;
                   // Retrieve attributes passed to the tag
                   CString strTrackingNr = GetRequiredAttribute( pRequest, "Tracking CString strAccountNr = GetRequiredAttribute( pRequest, "Shipper! CString strShipDate = GetRequiredAttribute( pRequest, "ShipDate'
                   // default output fields
                   pRequest->SetVariable( "ErrorCode", "" ) ;
pRequest->SetVariable( "ErrorMsg", "" ) ;
                   prequest->SetVariable( "DeliveryTime",
                  pRequest->SetVariable( "DeliveryTo", "" );
pRequest->SetVariable( "SignedFor", "" );
pRequest->SetVariable( "SignedFor", "" );
pRequest->SetVariable( "DispatchException", "" );
pRequest->SetVariable( "ServiceType", "" );
pRequest->SetVariable( "PackageType", "" );
                   pRequest->SetVariable( "ScanActivity", "" );
                   iFedExTrackErr = 3 ;
                   BuildFedExBuffer( pRequest, cWebTran, strTrackingNr, strAccount)
                   _itoa( iFedExTrackErr, cFedExTrackErr, 10 );
pRequest->SetVariable( "ConnectErr", cFedExTrackErr ) ;
                   // Output optional debug info
                   if ( pRequest->Debug() )
                             pRequest->WriteDebug( "Debug info..." );
                                           -669-
```

```
// Catch Cold Fusion exceptions & re-raise them
       catch( CCFXException* e )
               pRequest->ReThrowException( e ) ;
       }
       // Catch ALL other exceptions and throw them as
       // Cold Fusion exceptions (DO NOT REMOVE! --
       // this prevents the server from crashing in
       // case of an unexpected exception)
       catch( ... )
               pRequest->ThrowException(
                        "Error occurred in tag CFX_FEDEXTRACKADV",
                        "Unexpected error occurred while processing tag." ) ;
BuildFedExBuffer
                       builds buffer, connects to and disconnects from
11
int BuildFedExBuffer( CCFXRequest* pRequest, WebTransaction* cWebTran, CString :
       WebTransaction xctn("", 0,"","");
       int iLastError ;
       int nScanActivity, iPos, i, j;
       CString sReturnField ;
       char cFieldCode[8];
       char tmpString[71] ;
                                       // up to 15 fields, 70 + 1 chars each
       char ScanActivity[1200] ;
       xctn.AddVar("0", "403", true);
xctn.AddVar("1", cWebTran->GetNextTransID());
xctn.AddVar("29", strTrackingNr);
xctn.AddVar("10", strAccountNr);
xctn.AddVar("24", strShipDate);
       xctn.AddVar("99", "");
       // write send buffer to file
       /*
       FILE *fptrl;
       SetCurrentDirectory("f:\\bmao\\misc\\");
               fptr1 = fopen("lastsend.txt", "w+");
               if (fptrl != NULL)
                       fputs(xctn.m OutBuffer, fptrl);
                       fclose(fptrl);
       // end write
               int returnlen;
```

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iLastError = xctn.Connect() ;
if (iLastError != WEBAPI OK)

```
pRequest->SetVariable( "ConnectErrMsg", xctn.GetErrorSt)
                return iLastError;
        memset (xctn.m InBuffer, 0, WEBAPI_MAX_BUFFER_SIZE);
        iLastError = WERAPITransaction(xctn.m OutBuffer, strlen(xctn.m (
                                WEBAPI_MAX_BUFFER_SIZE, &returnlen);
        iLastError = xctn.Disconnect();
        pRequest->SetVariable( "ConnectErrMsg", xctn.GetErrorString() )
// write returned buffer to file
        fptr1 = fopen("lastrecv.txt", "w+");
        if (fptr1 != NULL)
                fputs(xctn.m_InBuffer, fptr1);
                fclose(fptrl);
// end write
// get error code
        sReturnField = getField(xctn.m_InBuffer, "\"2,\"") ;
        if (sReturnField == "")
                sReturnField = "0";
        pRequest->SetVariable( "ErrorCode", sReturnField ) ;
// get error message
        BReturnField = getField(xctn.m_InBuffer, "\"3,\"") ;
        pRequest -> SetVariable ( "ErrorMsg", sReturnField ) ;
// get delivery date field and set Cold Fusion variable
        sReturnField = getField(xctn.m_InBuffer, "\"1720,\"") ;
       pRequest->SetVariable( "DeliveryDate", sReturnField ) ;
// get delivery time field and set Cold Fusion variable
        sReturnField = getField(xctn.m_InBuffer, "\"1707,\"") ;
       pRequest->SetVariable( "DeliveryTime", sReturnField ) ;
// get Delivery To field and set Cold Fusion variable
        sReturnField = getField(xctn.m_InBuffer, "\"1705,\"") ;
       pRequest->SetVariable( "DeliveryTo", sReturnField ) ;
// get Signed For field and set Cold Fusion variable
       sReturnField = getField(xctn.m_InBuffer, "\"1706,\"") ;
       pRequest -> SetVariable ( "SignedFor", sReturnField ) ;
// get Dispatch Exception field and set Cold Fusion variable
       sReturnField = getField(xctn.m_InBuffer, "\"1709,\"")
       pRequest->SetVariable( "DispatchException", sReturnField );
// get Service Type field and set Cold Fusion variable
       sReturnField = getField(xctn.m_InBuffer, "\"1704,\"") ;
       pRequest->SetVariable( "ServiceType", sReturnField ) ;
// get Package Type field and set Cold Fusion variable
       sReturnField = getField(xctn.m_InBuffer, "\"1718,\"") ;
       pRequest->SetVariable( "PackageType", sReturnField );
```

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```
// get scan activity fields and set Cold Fusion variable
                 sReturnField = getField(xctn.m_InBuffer, "\"1715,\"") ;
                 nScanActivity = atoi( sReturnField ) ;
                 iPos = 0;
                 for (i=1; i<=nScanActivity; i++)</pre>
                         _itoa( 1720+i, cFieldCode, 10 );
                         for (j=4; j>=0; j--)
                                 cFieldCode(j+1) = cFieldCode(j) ;
                         cFieldCode[0] = '\"';
                         cFieldCode[5] = '
                         cFieldCode[6] = '\"';
                         cFieldCode[7] = ' \ 0';
                         sReturnField = getField(xctn.m InBuffer, cFieldCode) ;
                         strcpy( tmpString, sReturnField );
                         for (j=0; j<strlen(sReturnField);j++)
                                 ScanActivity[iPos] = tmpString[j] ;
                                 iPos++ ;
                         ScanActivity[iPos] = '<';</pre>
                         iPos++ :
                         ScanActivity[iPos] = 'b';
                         iPos++ ;
                         ScanActivity[iPos] = 'r';
                         iPos++
                         ScanActivity[iPos] = '>' ;
                         iPos++ ;
                ScanActivity[iPos] = '\0'
                pRequest->SetVariable( "ScanActivity", ScanActivity ) ;
       return iLastError;
// Parse the returned buffer for the contents of a specified field
LPCSTR getField(char *cBuffer, const char *cFieldCode)
        char tmpString[2048];
        UINT iStart, iLen, iLenFieldCode ;
char *pdest, *pdest1 ;
       LPSTR ptmpString ;
        tmpString[0] = '\0';
        iLenFieldCode = strlen(cFieldCode) ;
       pdest = strstr( cBuffer, cFieldCode );
        if (pdest == NULL)
                tmpString[0] = '\0';
                ptmpString = &tmpString[0] ;
                                         -672
```

```
return ptmpString ;
        iStart = pdest - cBuffer + iLenFieldCode ;
pdest1 = strstr( _strninc(cBuffer, iStart), "\"" );
        iLen = pdest1 - pdest - iLenFieldCode ;
        strncpy( tmpString, pdest+iLenFieldCode, iLen );
tmpString[iLen] = '\0';
        ptmpString = &tmpString[0] ;
        return ptmpString ;
// Get the value for the passed attribute (throw an exception
// if the attribute was not passed to the tag)
LPCSTR GetRequiredAttribute( CCFXRequest* pRequest, LPCSTR lpszAttribName)
        // Verify that the attribute exists (throw an exception
// if it does not)
        if ( !pRequest->AttributeExists(lpszAttribName) )
                 CString strErr =
                          "The required attribute " + CString(lpszAttribName) +
                          " was not passed to the tag. " ;
                 pRequest->ThrowException( TAG_ERROR_HEADER, strErr ) ;
        // Return the attribute
        return pRequest->GetAttribute( lpszAttribName ) ;
```

```
// CFX NOTIFYSUPPLIERPS - Cold Pusion custom tag
// Copyright 98. All Rights Reserved.
                                // Standard MFC libraries
#include "stdafx.h"
                                 // CFX Custom Tag API
#include "cfx.h"
// Constants
#define TAG_ERROR_HEADER "Error occurred in tag CFX_FedExTrack"
// Forward declarations of implementation functions
LPCSTR GetRequiredAttribute( CCFXRequest* pRequest, LPCSTR lpszParamName ) ;
void ProcessTagRequest( CCFXRequest* pRequest )
        try
                const unsigned TokenMax = 25 	ext{ // allows for } 25 	ext{ tokens, incl.}
                LPCSTR TokenID[TokenMax+1], TokenValue[TokenMax+1]; // not
                FILE *pFile ;
                char *pdest ;
                const unsigned MAX_BUFFER_SIZE = 5120 ; // 5K char InBuffer[MAX_BUFFER_SIZE], OutBuffer[MAX_BUFFER_SIZE] ;
                char ErrorMsg[256];
                unsigned long int ErrorCode, iFLenIn, iPos, i, j,
                         CurrentPosInBuffer, CurrentPosOutBuffer;
                //char cDebug[6]; // debug use only
                // default output fields
                pRequest->SetVariable( "ErrorCode", "0" ) ;
                pRequest->SetVariable( "ErrorMsg", "" );
                // Retrieve attributes passed to the tag
                TokenID[1] = "#productName#" ;
TokenValue[1] = GetRequiredAttribute( pRequest, "productName")
                TokenID[2] = "#product.Code#" ;
                TokenValue[2] = GetRequiredAttribute(pRequest, "productCode")
TokenID[3] = "#orderID#";
                TokenValue[3] = GetRequiredAttribute( pRequest, "orderID" ) ;
TokenValue[4] = GetRequiredAttribute( pRequest, "sheetNr" ) ;
                TokenID[4] = "#sheetNr#"
                TokenID[5] "#quantity#";
                TokenValue[5] = GetRequiredAttribute( pRequest, "quantity" );
                TokenID[6] = TokenID[5];
                TokenValue[6] = TokenValue[5] ;
                TokenID[7] = "#orderDate#";
                TokenValue[7] = GetRequiredAttribute( pRequest, "orderDate" );
                TokenID[8] = "#deliveryDate#";
                TokenValue[8] = GetRequiredAttribute( pRequest, "deliveryDate"
                TokenID[9] = "#recipientFirstName#" ;
                TokenValue[9] = GetRequiredAttribute( pRequest, "recipientFirst
                TokenID(10) = "#recipientLastName#" ;
                TokenValue[10] = GetRequiredAttribute( pRequest, "recipientLast
                TokenID[11] = "#companyName#";
                                   -674-
```

```
TokenValue[11] = GetRequiredAttribute( pRequest, "companyName")
              TokenID[12] = "#address1#";
              TokenValue[12] = GetRequiredAttribute( pRequest, "address1" ) ;
              TokenID[13] = "#address2#";
              TokenValue[13] = GetRequiredAttribute( pRequest, "address2" ) ;
              TokenID[14] = "#city#";
              TokenValue[14] = GetRequiredAttribute( pRequest, "city");
              TokenID[15] = "#state#"
              TokenValue[15] = GetRequiredAttribute( pRequest, "state" ) ;
TokenID[16] = "#zip#" ;
               TokenValue[16] = GetRequiredAttribute( pRequest, "zip" );
               TokenID[17] = "#countryCode#";
               TokenValue[17] = GetRequiredAttribute( pRequest, "countryCode" |
               TokenID[18] = "#phone1#";
               TokenValue[18] = GetRequiredAttribute( pRequest, "phonel" ) ;
               TokenID[19] = "#phone2#";
               TokenValue[19] = GetRequiredAttribute( pRequest, "phone2" )
              TokenID[20] = "#cardMsg1wwwwwwwwwwwwwwwwwwwwwwwwwww#"
              TokenValue[21] = GetRequiredAttribute( pRequest, "cardMsg2")
               TokenID[22] = "#cardMsg3WWWWWWWWWWWWWWWWWWWWWWWWWWWW#"
              TokenValue [23] = GetRequiredAttribute ( pRequest, "cardMsg4" )
               TokenID[24] = "#cardMeg5wwwwwwwwwwwwwwwwwwwwwwwwwwwwww
               TokenValue[24] = GetRequiredAttribute( pRequest, "cardMsg5" ) ;
               TokenID[25] = "showpage";
               TokenValue[25] = "";
              CString Template = GetRequiredAttribute( pRequest, "Template" )
               CString OutputDir = GetRequiredAttribute( pRequest, "OutputDir"
              CString OutputFileName = GetRequiredAttribute( pRequest, "Outpu
              ErrorCode = 0 ;
// debug file
SetCurrentDirectory(OutputDir);
FILE *fDebug;
fDebug = fopen("debug.txt", "w+");
// end debug file
              pFile = fopen(Template, "rb");
               if ( pFile == NULL)
                      strcpy(ErrorMsg, "error opening file ") ;
strcat(ErrorMsg, Template) ;
                      pRequest->SetVariable( "ErrorCode", "1" ) ;
                      pRequest->SetVariable( "ErrorMsg", ErrorMsg ) ;
               élse
                      iFLenIn = fread( &InBuffer, sizeof( char ), MAX BUFFER
                      fclose(pFile) ;
                      CurrentPosInBuffer = 0;
                      CurrentPosOutBuffer = 0 ;
                                   _675-
```

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JSCHU8113300 (Sheet 1 of 1)

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